

Training and Evaluation Outline Report

Status: Approved

24 Apr 2023

Effective Date: 24 Apr 2023

Task Number: 05-CO-5002

Task Title: Repair Airfields

Distribution Restriction: Approved for public release; distribution is unlimited.

Destruction Notice: None

Foreign Disclosure: FD1 - This training product has been reviewed by the training developers in coordination with the MSCoE foreign disclosure officer. This training product can be used to instruct international military students from all approved countries without restrictions.

Supporting Reference(s):

Step Number	Reference ID	Reference Name	Required	Primary	Source Information
	ATP 5-19	Risk Management	Yes	No	
	TC 5-340	Air Base Damage Repair (Pavement Repair).	Yes	No	
	TM 3-34.48-1	THEATER OF OPERATIONS: ROADS, AIRFIELDS, AND HELIPORTS - ROAD DESIGN	Yes	No	
	TM 3-34.48-2	Theater of Operations: Roads, Airfields, and Helicopters-Airfield and Heliport Design	Yes	No	
	TM 3-34.63	PAVING AND SURFACING OPERATIONS	Yes	No	
	TSPWG Manual 3-270-01.3-270-07	AIRFIELD DAMAGE REPAIR	Yes	Yes	

Conditions: The element is ordered to repair airfields in an area of operations. An engineer reconnaissance report and plans containing specific airfield requirements are available from the operations order (OPORD). All assigned equipment and personnel are available. Materials and additional construction equipment may be available upon request from battalion. The airfield is clear of explosive hazards.

Note: The Commander must still determine at what level of training they would want the element to perform. Crawl, walk or run. This can only be determined after consideration as to the units training level.

The Commander prior to evaluating an element in the conduct of the task must determine if it will be conducted in a Live, Virtual, or Constructive environment, additionally it must also be determined which condition as described below that the element will conduct the task. The selection made for this task is at a trained level of proficiency. The commander must determine which of the environments below will best suit the unit and the proficiency level at which the unit is. When conducting crawl or walk level training units should not increase the intensity until the unit has achieved the standards and then unit trainers should include variables that increase proficiency in all conditions.

Note: The condition statement for this task is written assuming the highest training conditions reflected on the Task Proficiency matrix required for the evaluated unit to receive a "fully trained" (T) rating.

Note: Condition terms definitions:

Dynamic Operational Environment: Three or more operational and two or more mission variables change during the execution of the assessed task. Operational variables and threat Tactics, Techniques, and Procedures (TTPs) for assigned counter-tasks change in response to the execution of Blue Forces (BLUFOR) tasks.

Complex Operational Environment: Changes to four or more operational variables impact the chosen friendly COA/mission. Brigade and higher units require all eight operational variables of Political, Military, Economic, Social, Infrastructure, Information, Physical environment, and Time (PMESII-PT) to be replicated in varying degrees based on the task being trained.

Single threat: Regular, irregular, criminal or terrorist forces are present.

Hybrid threat: Diverse and dynamic combination of regular forces, irregular forces, and/or criminal elements all unified to achieve mutually benefiting effects. This task should not be trained in MOPP 4.

Standards: The element repairs the airfield, to include reconnoitering the location, within the specified time in the OPORD using approved methods. The airstrip is capable of supporting the specified aircrafts outlined within the OPORD.

Note: Leaders are defined as the commander, construction engineer technician, executive officer, first sergeant, operations sergeant, platoon leaders, platoon sergeants, squad leaders, and team leaders.

Live Fire: No

Objective Task Evaluation Criteria Matrix:

Plan and Prepare		Execute					Evaluate		
Operational Environment	Training Environment (L/M/C)	% Leaders present at training/authorized	% Present at training/authorized	External evaluation	Performance measures	Critical performance measures	Leader performance measures	Evaluator's observed task proficiency rating	Commander's assessment
CO & BN									
Dynamic and Complex (4+ OE Variables and Hybrid Threat)	Night	>=75%	>=80%	Yes	>=80% GO	All	>=85% GO	T	T
Dynamic (Single Threat)	Day	60-74%	60-79%	No	65-79% GO	<All	75-84% GO	P	P
Static (Single Threat)		<=59%	<=59%		<65% GO		<=74% GO	U	U

Remarks: None

Notes: None

Safety Risk: Low

Task Statements

Cue: None

DANGER

Leaders have an inherent responsibility to conduct Risk Management to ensure the safety of all Soldiers and promote mission accomplishment.

WARNING

Risk management is the Army's primary decision-making process to identify hazards, reduce risk, and prevent both accidental and tactical loss. All Soldiers have the responsibility to learn and understand the risks associated with this task.

CAUTION

Identifying hazards and controlling risks across the full spectrum of Army functions, operations and activities is the responsibility of all Soldiers.

Task Performance Summary Block										
Training Unit			ITERATION							
			1		2		3		4	
Date of Training per Iteration:										
Day or Night Training:			Day / Night		Day / Night		Day / Night		Day / Night	
			#	%	#	%	#	%	#	%
Total Leaders Authorized		% Leaders Present								
Total Soldiers Authorized		% Soldiers Present								
Total Number of Performance Measures		% Performance Measures 'GO'								
Total Number of Critical Performance Measures		% Critical Performance Measures 'GO'								
Live Fire, Total Number of Critical Performance Measures		% Critical Performance Measures 'GO'								
Total Number of Leader Performance Measures		% Leader Performance Measures 'GO'								
MOPP LEVEL										
Evaluated Rating per Iteration T, P, U										

Mission(s) supported: None

MOPP 4: Never

MOPP 4 Statement: None

NVG: Never

NVG Statement: None

Prerequisite Collective Task(s): None

Supporting Collective Task(s):

Step Number	Task Number	Title	Proponent	Status
1.	05-CO-5001	Perform Project Management	05 - Engineers (Collective)	Approved
1.	05-CO-0007	Prepare an Operation Order (OPORD)	05 - Engineers (Collective)	Approved
2.	05-PLT-3006	Establish Work Site Security for a General Engineering Mission	05 - Engineers (Collective)	Approved
3.	05-PLT-5114	Provide Construction Site Drainage	05 - Engineers (Collective)	Approved
3.	05-PLT-5141	Perform Runway/Taxiway Crater Repair	05 - Engineers (Collective)	Approved
4.	05-CO-0018	Conduct Report Procedures	05 - Engineers (Collective)	Approved

OPFOR Task(s):

Task Number	Title	Status
71-CO-8502	OPFOR Execute an Ambush	Approved
71-CO-8504	OPFOR Execute a Reconnaissance Attack	Approved

Supporting Individual Task(s):

Step Number	Task Number	Title	Proponent	Status
	052-120A-5002	Direct Planning for Construction of a Site Drainage Systems	052 - Engineer (Individual)	Approved
	052-12N-1008	Excavate with a Crawler Tractor	052 - Engineer (Individual)	Approved
	052-12N-1009	Push Load a Wheel Tractor-Scraper with a Crawler Tractor	052 - Engineer (Individual)	Approved
	052-12N-1015	Load a Haul Unit with a Wheel Loader	052 - Engineer (Individual)	Approved
	052-12N-1016	Excavate with a Wheel Loader	052 - Engineer (Individual)	Approved
	052-12N-1029	Compact Material with a Steel Wheel Roller	052 - Engineer (Individual)	Approved
	052-12N-1203	Perform Leveling Operations with a Motorized Grader	052 - Engineer (Individual)	Approved
	052-12N-1204	Construct a Ditch with a Motorized Grader	052 - Engineer (Individual)	Approved
	052-12N-2001	Excavate a Sidehill Bench with a Crawler Tractor	052 - Engineer (Individual)	Approved
	052-12N-2003	Perform Advanced Grading Operations with a Motorized Grader	052 - Engineer (Individual)	Approved
	052-12N-3007	Supervise Installation of Drainage Systems	052 - Engineer (Individual)	Approved
	052-12N-3008	Supervise Soil Stabilization	052 - Engineer (Individual)	Approved
	052-12T-1251	Determine the Plasticity Index of a Soil	052 - Engineer (Individual)	Approved
	052-12T-1253	Determine the In-Place Soil Density by Sand Cone Method	052 - Engineer (Individual)	Approved
	052-12T-1254	Determine the In-Place Soil Density and Moisture Content by the Nuclear Method	052 - Engineer (Individual)	Approved
	052-12T-1500	Determine the Moisture Content of a Soil Using the Oven-Dry Method	052 - Engineer (Individual)	Approved
	052-12T-1502	Obtain a Representative Soil Sample	052 - Engineer (Individual)	Approved
	052-12T-1503	Determine the Specific Gravity of a Soil	052 - Engineer (Individual)	Approved
	052-12T-1506	Classify a Soil Using the Unified Soil Classification System (USCS)	052 - Engineer (Individual)	Approved
	052-12T-3029	Design Concrete Mix	052 - Engineer (Individual)	Approved
	052-12T-3401	Review Drawings and Sketches	052 - Engineer (Individual)	Approved
	052-12T-3412	Determine Drainage Requirements	052 - Engineer (Individual)	Approved
	052-12T-3415	Determine the Optimum Soil Stabilization Method	052 - Engineer (Individual)	Approved
	052-12V-1036	Produce Concrete with an M5 Concrete Mobile Mixer	052 - Engineer (Individual)	Approved
	052-252-3055	Direct Employment of an M5 Concrete Mobile Mixer	052 - Engineer (Individual)	Approved
	052-253-1049	Roll Material With a 9-Wheel, Self-Propelled Roller	052 - Engineer (Individual)	Approved
	052-253-1059	Pressure Fill a Water Distributor	052 - Engineer (Individual)	Approved
	052-253-1060	Spray an Area Using a Water Distributor	052 - Engineer (Individual)	Approved
	052-254-1040	Spread a Stockpile With a Crawler Tractor	052 - Engineer (Individual)	Approved
	052-254-1042	Level Fill Material in a Fill Area With the Angle Blade of a Crawler Tractor	052 - Engineer (Individual)	Approved
	052-254-1049	Rip Material With a Crawler Tractor	052 - Engineer (Individual)	Approved
	052-254-1055	Spread Piles of Loose Material With a Motorized Grader	052 - Engineer (Individual)	Approved
	052-254-1058	Construct a Stockpile With a Scoop Loader	052 - Engineer (Individual)	Approved
	052-254-1061	Move a Load With a Scoop Loader Clamshell	052 - Engineer (Individual)	Approved
	052-254-1069	Excavate Material From an Area With a Motorized Scraper	052 - Engineer (Individual)	Approved
	052-254-1075	Construct a Stockpile With a Deployable Universal Combat Earthmover (DEUCE)	052 - Engineer (Individual)	Approved
	052-254-1076	Spread a Stockpile With a Deployable Universal Combat Earthmover (DEUCE)	052 - Engineer (Individual)	Approved
	052-254-2044	Final-Grade an Area With a Motorized Grader	052 - Engineer (Individual)	Approved
	052-256-3020	Interpret a Construction Print	052 - Engineer (Individual)	Approved
	052-256-3043	Direct Crawler Tractor Operations	052 - Engineer (Individual)	Approved
	052-256-3044	Direct Motorized Scraper Operations	052 - Engineer (Individual)	Approved
	052-256-3045	Direct Motor Grader Operations	052 - Engineer (Individual)	Approved
	052-256-3046	Direct Compaction Operations	052 - Engineer (Individual)	Approved
	052-256-3047	Direct Scoop Loader Operations	052 - Engineer (Individual)	Approved
	052-256-3048	Direct Utility Tractor Operations	052 - Engineer (Individual)	Approved
	052-256-3052	Interpret a Critical Path Method (CPM)	052 - Engineer (Individual)	Approved
	052-256-3054	Direct Runway/Bomb Crater Repairs	052 - Engineer (Individual)	Approved
	052-256-3055	Direct the Construction of a Helipad	052 - Engineer (Individual)	Approved

Supporting Drill(s): None

Supported AUTL/UJTL Task(s):

Task ID	Title
ART 4.1.7.1	Develop Infrastructure

TADSS

TADSS ID	Title	Product Type	Quantity
No TADSS specified			

Equipment (LIN)

LIN	Nomenclature	Qty
No equipment specified		

Materiel Items (NSN)

NSN	LIN	Title	Qty
No materiel items specified			

Environment: Environmental protection is not just the law but the right thing to do. It is a continual process and starts with deliberate planning. Always be alert to ways to protect our environment during training and missions. In doing so, you will contribute to the sustainment of our training resources while protecting people and the environment from harmful effects. Refer to the current Environmental Considerations manual and the current GTA Environmental-related Risk Assessment card. .

Safety: In a training environment, leaders must perform a risk assessment in accordance with current Risk Management Doctrine. Leaders will complete the current Deliberate Risk Assessment Worksheet in accordance with the TRADOC Safety Officer during the planning and completion of each task and sub-task by assessing mission, enemy, terrain and weather, troops and support available-time available and civil considerations, (METT-TC). Note: During MOPP training, leaders must ensure personnel are monitored for potential heat injury. Local policies and procedures must be followed during times of increased heat category in order to avoid heat related injury. Consider the MOPP work/rest cycles and water replacement guidelines IAW current CBRN doctrine. .